

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
24 February 2005 (24.02.2005)

PCT

(10) International Publication Number
WO 2005/018281 A1

(51) International Patent Classification⁷: **H05B 3/34**,
3/36, 1/02

(21) International Application Number:
PCT/IT2003/000510

(22) International Filing Date: 14 August 2003 (14.08.2003)

(25) Filing Language: Italian

(26) Publication Language: English

(71) Applicant (for all designated States except US): **IMETEC S.p.A.** [IT/IT]; Via Piemonte, 5/11, I-24052 Azzano S. Paolo (Bergamo) (IT).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **MORGANDI, Arturo** [IT/IT]; Via Sudorno, 5, I-24129 Bergamo (IT).

(74) Agents: **BOTTERO, Claudio et al.**; Porta Checcacci & Associati S.p.A., Via Trebbia, 20, I-20135 Milano (IT).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

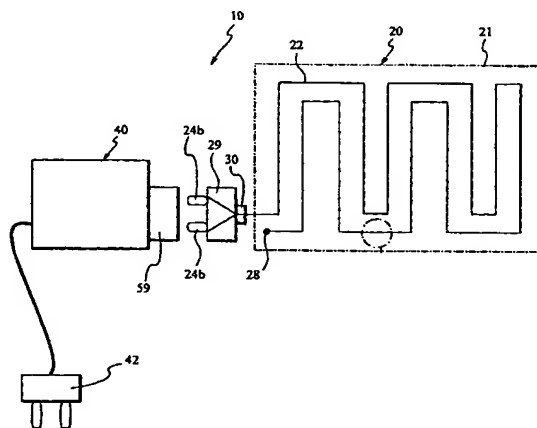
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: HEAT BLANKET



(57) Abstract: The heat blanket (10) comprises an operative unit (20) and a control/power supply unit (40) which can be electrically connected on one side to the power mains and on the other side to the operative unit (20). The operative unit (20) comprises a foldable sheet (21) and a linear heating element (22) distributed in the sheet (21), with a first and second conductor extending one along the other, separated by a first electrically insulating material and enclosed by a second electrically insulating material; the first and second conductor are electrically connected to the control/power supply unit (40) and have respective first terminals inside the panel which are connected together. The control/power supply unit (40) comprises a power supply group (41) for the heating element (22), intended for the connection to the electric mains, and control means of the power supply for the heating element (22). The control means comprise a cut-off group (45) of the power supply for the heating element, a microprocessor (50), connected to the heating element (22), to the power supply group (41) and to the cut-off group (45), set to detect possible anomalies in the power supply conditions of the heating element (22) and to act on the switch group interrupting the power supply of the heating element when said anomalies occur.

WO 2005/018281 A1